

~~Lech~~ #, GRAT, L.

POLAND/Chemical Technology. Chemical Products and Their Application. Cellulose and Derivatives. Paper.

H-33

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 16508

Author : Wnuk Marian, Kontek Wacław, Gracj Lech

Inst : Institute of Wood Technology.

Title : Investigation of the Possibility of Utilizing Extracted Oak Chips for the Production of New Materials.

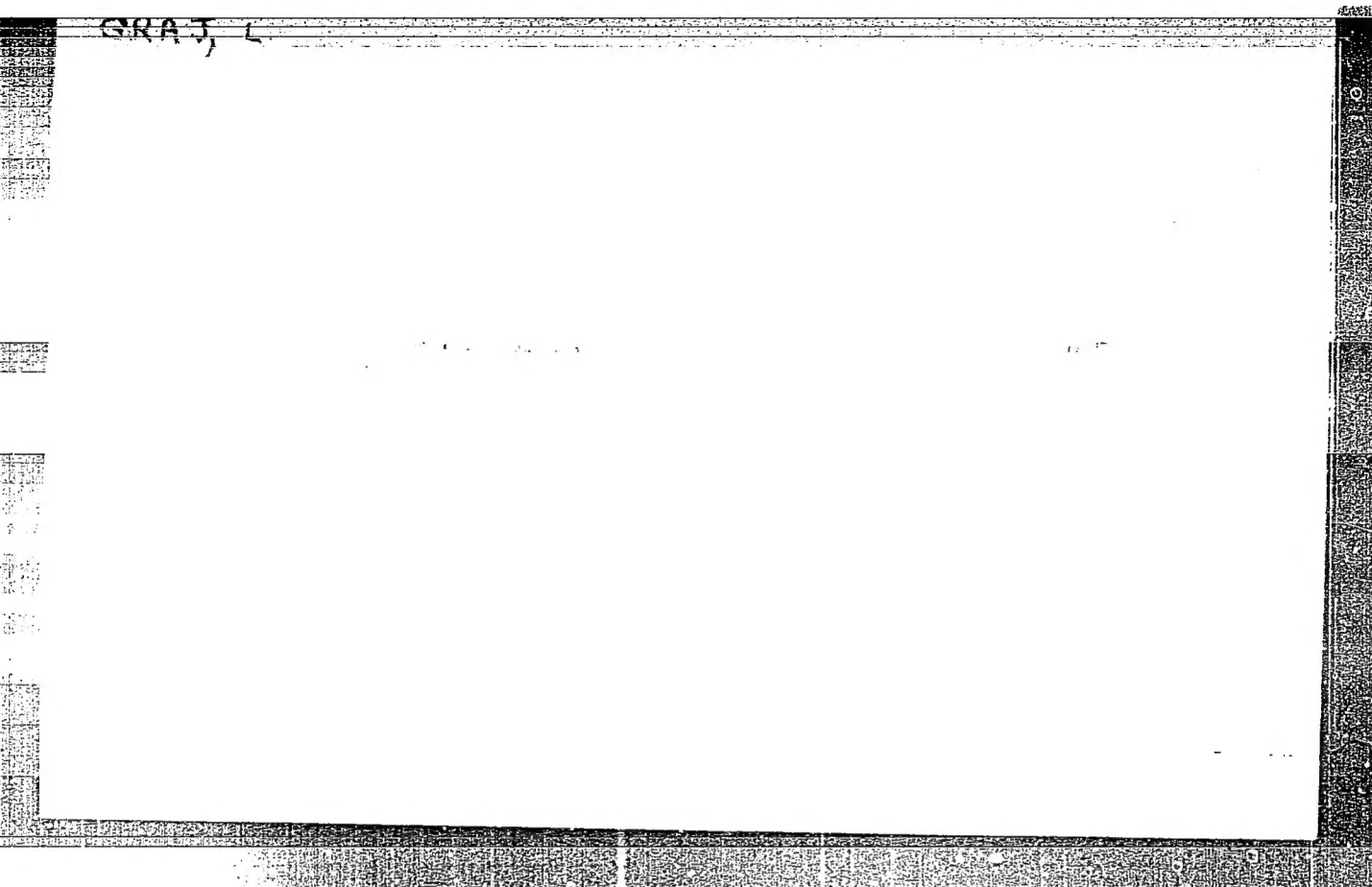
Orig Pub: Prace Inst. technol. drewna, 1956, 3, No 3, 78-91.

Abstract: The possibility has been ascertained of utilizing the residues obtained after extraction of tannins from oak chips (I) for preparing materials of the type of wood plastics: particles of I sorted by size and containing 70% moisture are dried to a moisture content of 10-12%, mixed with 10% "Alpit" phenol-formaldehyde resin and molded into articles (panels, window sash, staves, etc.) at 140° (pressure 100 kg/cm<sup>2</sup>,

Card : 1/2

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1 35573-65 EEC(b)-2/EFF(c)/EPP(n)-2/EPP/EWA(j)/EPC(k)-2/EWA(h)/EWA(k)/EWP(k)/

AUTHOR: Piekara, A.; Kaczmarek, F.; Drobnik, A.; Graja, A.; Ramiszowna, T.

TITLE: Lasers at the Poznan scientific center

SOURCE: Postepy fizyki, v. 15, no. 4, 1964, 451-457

TOPIC TAGS: laser, ruby laser, helium neon laser, nonlinear optics, excitation threshold

ABSTRACT: For the past few years, the Katedra fizyki doswiadczalnej Uniwersytetu im. A. Mickiewicza (Experimental physics department of Adam Mickiewicz University) and the Zaklad dielektrykow Instytutu fizyki PAN (Dielectrics department of the Physics Institute of the Polish Academy of Sciences) in Poznan have been carrying out theoretical studies in the field of nonlinear optics. Since the second half of 1962, the Poznan scientific center has been engaged in experimental studies on lasers. The purpose of these studies was to design gaseous and ruby lasers and to apply them to the investigation of nonlinear optical and dielectric effects. Towards the end of 1963, the design of a few experimental models of gaseous, helium-neon lasers for the near infrared ( $\lambda = 1.15 \mu$ ) was completed, and also two

Card 1/5

L 35573-65

ACCESSION NR: AP4047632

ruby lasers were put into operation ( $\lambda = 6943 \text{ \AA}$ ). One of them operates with a ruby in a confocal system of mirrors and the other operates with a ruby rod and plane mirrors. The gaseous helium-neon lasers, the schematic diagram of which is shown in Fig. 1 of the Enclosure, are described. A 28mc oscillator was used to trigger the lasers into operation. The output power of the lasers in continuous operation was of the order of a few milliwatts. The purpose of further work is to increase the output power in order to use them for the investigation of nonlinear effects. The ruby lasers, the schematic diagram of which is shown in Fig. 2 of the Enclosure, have a pulsed operation and thus gave much higher peak powers of the optical beam. The synthetic ruby crystals were produced by the Hute Aluminum Smelting Plant) in Skawina. In order to lower the excitation threshold, the ruby was cooled with liquid nitrogen. Oscillograms of ruby fluorescence below the excitation threshold and of lasing above the excitation threshold are shown when the ruby was placed in a confocal system of mirrors. The other laser employed a ruby rod (made in Switzerland) having surfaces polished and coated with totally reflecting silver layers. One of the end surfaces had a transmittivity of 1-2%. The physical data on gaseous and ruby lasers are tabulated. The laser employing a confocal ruby gave a more divergent beam than the laser em-

Card 2/5

L 35573-65

ACCESSION NR: AP4047632

2

playing the ruby with flat ends. The confocal ruby had a 30% lower energy of excitation than the ruby with flat end surfaces. The least divergent beam (angle of divergence of 45') was obtained with the Swiss-made ruby 50 mm in length, 5.0 mm in diameter, with a  $\text{Cr}^{+3}$  concentration of 0.035% and employing plane silver mirrors. The purpose of further work will be to design and produce ruby lasers of high output powers suitable for the investigation of nonlinear dielectric, optical, and electrooptical effects in liquids and crystals. Orig. art. has: 7 figures, and 2 tables.

ASSOCIATION: Katedra fizyki doswiadczalnej Uniwersytetu im. A. Mickiewicza (Experimental physics department, Mickiewicz University); Zaklad dielektrykow Instytutu fizyki PAN, Poznan (Dielectrics department, Physics institute, PAN)

SUBMITTED: 00

ENCL: 02

SUB CODE: OP, EC

NO REF SOV: 000

OTHER: 005

Card 3/5

GRAJDEK, Ryszard, Mgr inż., asystent

Computation of double bound gear transmission. Przegl mech  
22 no.24:751-754 D'63.

1. Katedra Obrabiarek, Politechnika, Poznan.

GRAJEK, C. (Gdansk)

On determining ~~bounded~~ solutions of linear differential equations of order  $n$ . Colloquium mathem 9 no. 1:119-125 '62.

GRAJEK, C. (Gdansk)

On determining bounded solutions of linear differential equations  
by the small parameter method. Col math 9 no.2:305-312 '62.



GRAJEWSKA A

- Warsaw, Niechcimy Weterinaryjny, Vol 18, No 4, April 1962.
1. "African Hog Cholera (Montgomery's Disease)", Tadeusz JASTRZEBSKI; pp 19-197.
  2. "Field Diagnosis of Swine Influenza Using the Maxis Method", J. WITKOWSKI, St. MADEYSKI, and A. GILLER. Journal of the Research Office of Animal Hygiene (Zaklad Badań Zoologicznych) of the Institute for Veterinary Science (Instytut Weterynaryjny) at Bydgoszcz (Director: Dr. Jerzy WITKOWSKI); of the Zootechnical Institute (Instytut Zootechniczny) at Krakow, and of the Veterinary Hygiene Research Office at Wroclaw. pp 197-201 (English summary).
  3. "Cases of Avian Influenza in Silver Foxes, White Foxes, and Rabbits", J. WITKOWSKI and Jerzy SZAF-LUBSKI; pp 201-204.
  4. "Intensive Immunization of Calves Against Newcastle Disease Using the Strains FNV, LaSota, and F. Vanda", J. WITKOWSKI, J. MADEYSKI, and J. SZAF-LUBSKI. Journal of the Research Office for Poultry Diseases (Zaklad Choroib Ptakow) of the SOG (Srodek Ochrony Gospodarczej Wzrostow), Main School of Rural Economy at Warsaw (Director: Dozent Dr. Kazimierz NAKIELNY); pp 205-207 (English summary).
  5. "Notes on the Serodiagnosis of Brucellosis of Sheep", Leopold URSKI; of the Weterynaryjny Zaklad Badań Zoologicznych; pp 207-209 (English summary).
  6. "Hemolytic Reaction and Blood Picture in Cattle Infected with Brucellosis", Antoni DZIADA and Zofia KAWKOWSKA. Journal of the Chair of Bacteriology (Katedra Bakteriologii) of the Faculty of Veterinary Science (Wydział Weterynaryjny) of the SOG at Warsaw (Director: Prof. Dr. A. SZKLIK); and of Small-Animal Diseases Research Office (Zaklad Choroib Malych Zwierzat) of the Faculty of Veterinary Science of SOG at Warsaw (Director: Dozent Dr. W. STANISLAWSKI); pp 210-211.
  7. "Rupture of Spleen in a Bull Suffering from Tuberculosis", Zenon WAGNAR and Jan SZAF-LUBSKI. Journal of the Chair of Bacteriology (Katedra Bakteriologii) of the Faculty of Veterinary Science of the Higher School of Agriculture (Wzrostow Szkola Rolnicza) at Wroclaw (Director: Prof. Dr. Tadeusz SZKLIK); pp 211-212.

1/3

GRAJNIEKA, Czeslawa.

Observations on the application of pendiomid during the excision of the pulmonary tissue. Polski tygod. lek. 11 no.4:153-156 23 Jan 56.

1. Z Oddzialu Chirurgicznego Sanatorium Sokolowskiego w Zakopanem;  
Kier.: prof. dr Wit Rzepecki. Zakopane, Sanatorium im. Sokolowskiego.  
    (AUTONOMIC DRUGS, ther. use  
        pendiomide in lung resection)  
    (LUNGS, surg.  
        resection, pendiomide in anesth.)

EXCERPTA MEDICA Sec 7 Vol 13/3 Pediatrics Mar 59

871. VALUE OF SUXAMETHONIUM IN PULMONARY RESECTIONS IN CHILDREN - Wartość suksynyliholiny w śródchawiczym uśpieniu u dzieci. (Próby kliniczne polskiego preparatu) - Grajewska C. Oddz. Ftyzjochir. Dziec. Ośrodka Sanat.-Prewentoryjnego, Rabce - POL. PRZEGL. CHIR. 1958, 30/3 (251-254)

The clinical value of suxamethonium was investigated in 90 children aged 3 to 18, who had been subjected to pulmonary resection of tissue or other interventions on the thorax. This drug, when administered in general intratracheal anaesthesia, proved to be an excellent relaxant. It is short-acting, and particularly facilitates intubation, and in none of the cases observed did it cause any complications or serious side-effects. (VII, 9, 15)

GRAJEWSKA, Czeslawa

On anesthesia in surgical interventions on children in "wet" conditions.  
Postepy hig. med. dosw. no.2:70-71 '60.

1. Z Oddzialu Torakochirurgii D.O.S.P. w Rabce.

(PNEUMONECTOMY in inf & child)  
(ANESTHESIA GENERAL in inf & child)

GRAJEWSKA, Czeslawa; HOFMAN, Danuta; WALEWSKA, Emilia

Repeated bronchoscopies in lymphogenic lesions. Gruzlica 33 no.8:  
649-652 Ag ' 65

1. Z Sanatorium Przeciwegrzuliczego dla Dzieci w Lagiewnikach  
(Kierownik naukowy: prof. dr. med. A. Margolisowa).

GRAJKOWSKI, Henryk

Effect of steel and perlon mesh on the durability of acrylic denture plates. Czas. stomat. 18 no. 12:1401-1405 D ' 65.

1. Z Zakładu Protetyki Stomatologicznej AM w Poznaniu (Kierownik: doc. dr. R. Sarrazin).

MIELECKI, Tadeusz, doc. dr inz.; SZULAKOWSKI, Wacław, mgr inz.; GRAJNER,  
Janusz, inz.

Coal as source of detriminetal sediments on the heating  
surface of boilers. Przegl gorn 19 no.11:443-444 N '63.

GRAJNER, S.

"Investigation on the prototype of the SH-23 hydraulic coupling."  
Biuletyn.

pl 7 (Przegląd Gorniczy) Vol. 12, no. 4, Apr. 1956  
Katowice, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958



GRAJNERT, Kazimierz, Mgr.

Biochemistry of adrenal steroids. Postepy reumat. no.1:58-65 1954.

1. Z Panstwowego Instytutu Reumatologicznego Dyrektor: prof dr.  
E.Reicher.

(ADRENAL CORTEX, hormones,  
chem.)

PAGOWSKA-WAWRZYNSKA, Jadwiga, Dr med.; GRAJNERT, Kazimierz, mgr.

Effect of mud packs on 17-ketosteroids in urine and on eosinophil count in ankylosing spondylitis. Postepy reumat. no.1:126-136 1954.

1. Z Panstwowego Instytutu Reumatologicznego Dyrektor: prof. dr E. Reicher.

(SPONDYLITIS, ANKYLOSING, therapy,

mud ther., eff. on eosinophil count & urinary 17-ketosteroids)

(STEROIDS, in urine,

17-keto, in spondylitis, ankylosing, eff. of mud ther.)

(EOSINOPHIL COUNT, in various diseases,

spondylitis, ankylosing, eff. of mud ther.)

(URINE,

17-ketosteroids in spondylitis, ankylosing, eff. of mud ther.)

(MUD THERAPY, in various diseases,

spondylitis, ankylosing, eff. on eosinophil count & 17-ketosteroids)

GRAJNERT, Kazimierz

Salicylic acid level in blood and its relation to blood proteins.  
Postępy reumat. no.2:156-167 1956.

1. Z Instytutu Reumatologicznego w Warszawie Dyrektor Instytutu:  
prof. dr. E. Reicher.

(SALICYLIC ACID, in blood  
mechanism of action in rheum. ther. (Pol))

(RHEUMATISM, ther.  
salicylic acid, mechanism of action (Pol))

Grajnert, k

GRAJNERT, K.; MAKAY, M.; RAJPERT, D.

Effect of mud liniments on the secretion of 17-ketogenic steroids in patients with ankylosing spondylitis. Postepy reumat. no.3:72-80 1957.

1. Z Instytutu Reumatologicznego. Dyrektor: prof. dr Eleonora Reicher.  
(SPONDYLITIS, ANKYLOSING, urine in  
17-ketosteroids, eff. of mud liniments (Pol))  
(17-KETOSTEROIDS, in urine  
in ankylosing spondylitis, eff. of mud liniments (Pol))  
(LINIMENTS, eff.  
mud liniments on urinary 17-ketosteroids in ankylosing  
spondylitis (Pol))

JEDRZEJEWSKI, Roman; GRAJNERT, Kazimierz; IWANOVA, Tvetana

Studies on the effect of surgical trauma on the excretion of keto steroids. Polski tygod. lek. 14 no.39:1737-1742 28 Sept 59.

1. (Z I Kliniki Chirurgicznej A. M. w Warszawie; kierownik: prof. dr T. Butkiewicz i z Panstwowego Instytutu Reumatologicznego; kierownik: prof. dr E. Reicher).  
(17-KETOSTEROIDS, in urine) (SURGERY, OPERATIVE, urine)

GRAJNERT, Kazimierz

Determination of 17-ketosteroids in urine. Polskie arch. med.  
wewn. 29 no.9:1193-1201 1959.

1. Z Instytutu Reumatologii w Warszawie Dyrektor: prof. dr med.  
E. Reicher.

(17-KETOSTEROIDS, urine)

GRAJNERT, Kazimierz; JAWORSKA, Hanna; REICHER, Eleonora

Proteins, mucoproteins and glucoproteins in the blood serum of normal subjects and of patients with chronic progressive rheumatism. Reumatologia Polska no.3:309-311 '60.

1. Z Instytutu Reumatologicznego w Warszawie Dyrektor: prof. dr med. E. Reicher

(ARTHRITIS RHEUMATOID blood)  
(BLOOD PROTEINS)  
(GLYCOPROTEINS blood)  
(MUCOPROTEINS blood)

GRAJNERT, Kazimierz

Salicylate metabolism in man. Use of paper chromatography in the study of salicylate metabolites in urine and blood. Reumatologia Polska no.3:397-406 '60.

1. Z Instytutu Reumatologicznego w Warszawie Dyrektor: prof. dr med.  
E. Reicher  
(SALICYLATES metab)



GRAJNERT, Kazimierz

Control of results in the Laboratory of Clinical Chemistry. Pol. tyg.  
lek. 17 no.40:1549-1552 1 0 '62.

1. Z Katedry Analizy Lekarskiej Studium Doskonalenia Lekarzy w AM  
w Warszawie; kierownik: doc. dr med. Jerzy Krawczynski.  
(CHEMISTRY ANALYTICAL) (TECHNOLOGY MEDICAL)

GRAJNERT, Kazimierz

A micromethod for the determination of salicylates in blood.  
Wiad. lek. 18 no.12:1013-1019 15 Je '65.

1. Z Katedry Diagnostyki Laboratoryjnej SDL [Studium Doskonalenia  
Lekarzy] w Akademii Medycznej w Warszawie (Kierownik: prof. dr.  
med. J. Krawczynski).

ZORE, Mira; IRIC, Ante; GRAKALIC, Mladen, kapetan fregate; BULJAN,  
Miljenko, dr.

Review of conferences and consultations during 1958. Hidrograf.god  
1958 (Published 1959):89-100. (KRAI 9:5)

1. Jugoslovenska ratna mornarica (for Grakalic).  
(Adriatic Sea) (Yugoslavia--Hydrography)

GRAKAUSKAS, B. M.

Cand Agr Sci - (diss) "Reserves and means for increasing the production of agricultural products in the kolkhozes of the Lithuanian SSR." Kaunas, 1961. 42 pp; (Ministry of Agriculture Lithuanian SSR, Lith Agr Academy); 200 copies; free; list of author's works on pp 41-42 (18 entries); (KL, 10-61 sup, 221)

POPOVA, L.A., inzh.; ANTIPINA, V.I.; GRAKHOV, A.N., starshiy inzh.; PERSHINA, M.P., tekhn.; TEREKHT'YEVA, K.A., starshiy tekhn.; ZARINA, Ye.S.; TUULYA-METS, Kh.Yu., inzh.; MERILA, L.A., starshiy inzh.; KUZNETSOV, I.V., red.; EYPRE, T.F., red.; SVITINA, A.A., red.; MOISEYEV, I.N., red.; FLAUM, M.Ya., tekhn. red.

[Hydrological yearbook] Gidrologicheskii ezhegodnik. Leningrad, Gidrometeor. izd-vo. 1957. Vol.1. [Basin of the Baltic Sea] Bassein Baltiiskogo moria. Nos.0-3. [Basins of the Gulf of Finland and the Gulf of Riga from the Russian-Finnish frontier to the northern watershed of the Salaca River] Basseiny Finskogo i Rizhskogo zalivov ot gosudarstvennoi granitsy s Finliandiei do severnogo vodorazdela r.Salatsa. Pod red. I.V.Kuznetsova i T.F.Eipre. 1961. 460 p. (MIRA 14:9)  
(Baltic Sea region—Hydrology) (Kama Valley—Hydrology)

GRAKHOV, Gennadiy Nikolayevich; SOLYANOVA, E., red.; DERVAS, I.,  
tekh. red.

[For 75 kilograms of cocoons from a box of eggs] Za 75 kilo-  
grammov kokonov s korobki greny. Tashkent, Gosizdat UzSSSE,  
1957. 13 p. (MIRA 15:11)  
(Uzbekistan--Sericulture)

GRAKHOV, L. K.

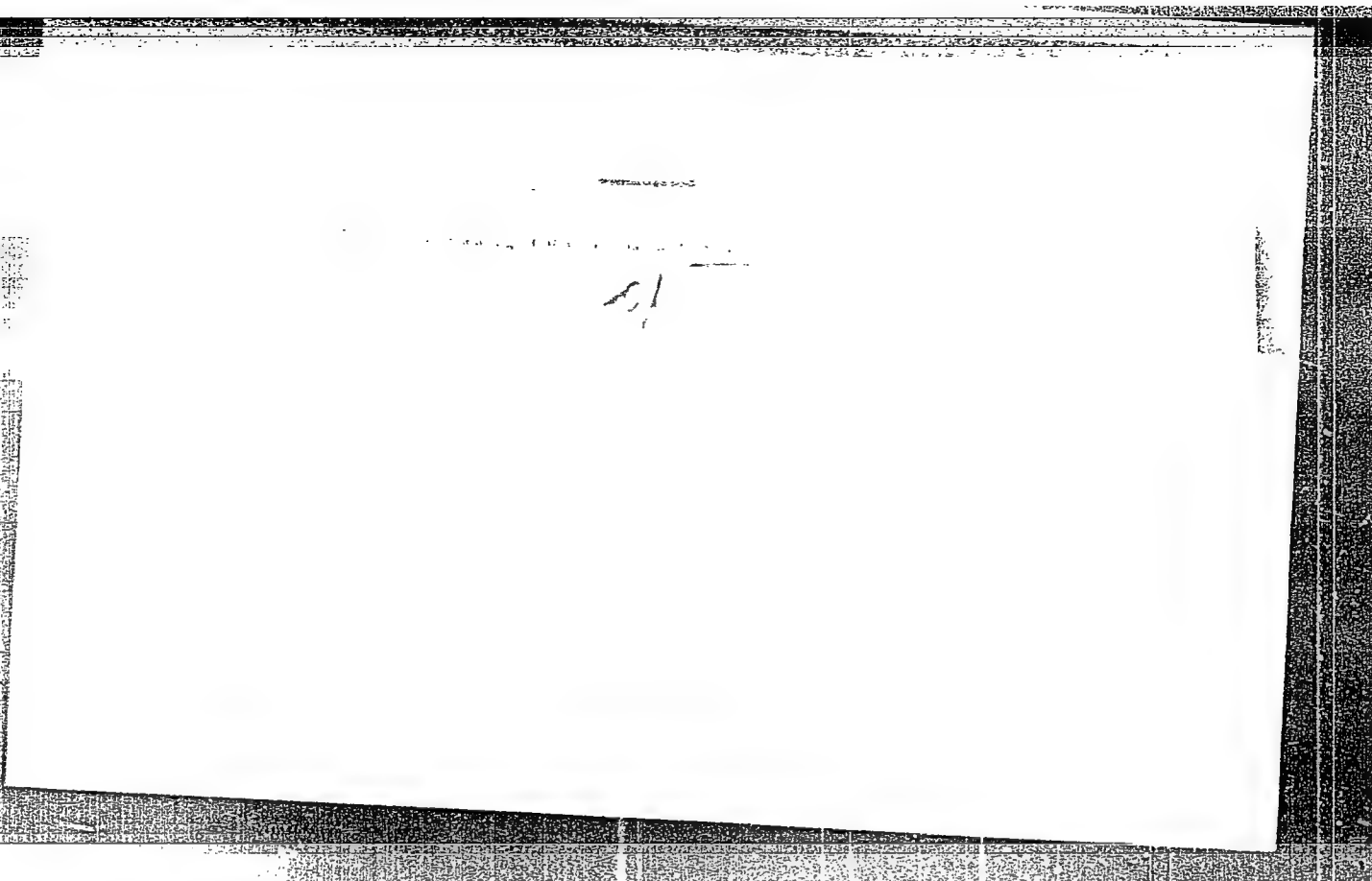
GRAKHOV, L. K. -- "The Effect of Individual Factors on the Thermal Balance of the Small-Scale Bessemer Process." Min Higher Education USSR. Central Asia Polytechnic Inst. Tashkent, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

No 1

SO: Knizhnaya letopis', 1956, pp 102-122, 124

"APPROVED FOR RELEASE: 03/13/2001

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18(3)

AUTHORS:

Fuklev, V. A., Grakhov, L. K.

SOV/163-59-2-15/48

TITLE:

On the Problem of Overheating of Steel in Side Blown  
Bessemerizing (K voprosu o peregreve stali pri malom  
bessemerovanii)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 2,  
pp 78-83 (USSR)

ABSTRACT:

In the process mentioned in the title, the temperature rise due to oxidation of silicon is about 2 to  $2\frac{1}{2}$  times higher than the one caused by carbon combustion. This is explained by the fact that the silicon fully oxidizes in the liquid metal phase and emits its heat to the latter, whereas the carbon in the metal only partially oxidizes, and burns to  $CO_2$  only outside the metal. Thus, the oxidation of Si is decisive for the temperature of the metal. The course of the gas temperature during the blowing of the side blown converter - shown in figures 1 and 2 - proves that the gas cannot cause an overheating of the tank. The authors advocate such overheating since it considerably shortens the blowing period (Fig 3), attaining a better utilization of the oxygen blown in. The habit of economizing ferrosilicon in practice is

Card 1/2

On the Problem of Overheating of Steel in Side Blown Bessemerizing SOV/163-59-2-15/48

criticized. In this case, the required temperature is only attained by the burn-up of iron, for which purpose 8 times more iron than silicon is necessary. Maximum efficiency is attained by high overheating, good utilization of the oxidation reactions of silicon and carbon, optimum utilization of the wind oxygen, and a minimum burn-up of iron. There are 3 figures and 4 references, 3 of which are Soviet.

ASSOCIATION: Sredneaziatskiy politekhnicheskiy institut  
((Soviet) Central Asia Polytechnic Institute)

SUBMITTED: August 28, 1958

Card 2/2

18(5)

SOV/128-59-6-8/25

AUTHOR: Grakhov, L.K., and Fuklev, V.A., Candidates of Technical Sciences

TITLE: Some Aspects of the Side-Blown Bessemer Process

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 6, pp 20-22 (USSR)

ABSTRACT: Scientific studies have shown that Bessemer steel comes very close to or even surpasses with its properties the Siemens Martin steel and electric steel. This is indicated too by the considerable attention given to Bessemer steel during recent years. (The authors quote an article by S.E. Smith and J.E. Loy in "Elast Furnace and Steel Plant", March 1950). The specific specialties of the "baby Bessemer process" consist of blowing air at the surface of the converter or at an insignificant depth (but not from the bottom). The author compares the English experiments ("Journal Of Iron And Steel Institute", January and February 1947) and the Soviet experiments (Grakhov, L.K., Doctor thesis, 1955), both arriving at the same con-

Card 1/2

SOV/128-59-6-8/25

Some Aspects of the Side-Blown Bessemer Process

clusions about the "baby Bessemer process" with regard to the absorption of oxygen. The type of blowing is the basic factor of the baby Bessemer process. A similar role plays the intensity of the blowing method. This is especially the case during the start of the melting process when there is not yet a "boiling Process" in the converter. The results of the experiments are listed by means of 5 graphs. Conclusion: It is the intention of the whole process to create the conditions for an intensive oxydation of the carbon and for a boiling of the contents of the converter during the longest possible priod of time. (Remark of the editors office: The so-called "boiling" (caused by the oxydation of the carbon) shall not be regarded as an independent factor). There are 5 graphs, and 9 references, 7 of which are Soviet and 2 English

Card 2/2

POSTOL, G.S.; SHAPIRO, S.Ye.; FRISHMAN, R.B.; RYLOVA, Ye.S.; GRAKHOVA, L.I.;  
ABUSHKEVICH, P.V.; MAZURIN, N.D.

Study of serous-viral meningitis in Khabarovsk in 1959. Vop. okh.  
mat. i det. 6 no.11:9-14 N '61. (MIRA 14:12)

1. Iz kliniki pediatrii (zav. - dotsent G.S.Postol), kliniki  
infektsionnykh bolezney (zav. - dotsent S.Ye.Shapiro) Khabarovskogo  
meditsinskogo instituta (dir. - prof. S.K.Nechepayev) i sanitarno-  
epidemiologicheskogo otryada Dal'nevostochnogo okruga (nachal'nik  
M.I.Lev).

(MENINGITIS)

(Khabarovsk--VIRUS DISEASES)

GRAKHOVA, M. T. (Krasnoyarsk)

Perithelioma of the mediastinum. Klin. med. 32 no.11:65-66 N '54.

(MLRA 8:1)

1. Is gosptal'noy khirurgicheskoy kliniki (sav.-prof. A.M.Dykhno)  
Krasnoyarskogo meditsinskogo instituta.

(MEDIASTINUM, neoplasms  
hemangiopericytoma)

(HEMANGIOPERICYTOMA  
mediastinum)

RYABOVA, N.D.; GRAKHOVA, S.G.

Cryoscopic determination of cyclohexane purity. Izv. AN Uz. SSR.  
Ser. khim. nauk no.3:89-93 '57. (MIRA 11:9)  
(Cyclohexane) (Cryoscopy)

5(3)

SOV/80-32-5-32/52

AUTHORS:

Rapoport, I.B., Nefedov, B.K., Grakhova, S.G.

TITLE:

On the Reaction of Dehydrogenation of Higher Paraffin Hydrocarbons Over Coal Catalysts

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 5, pp 1112-1121 (USSR)

ABSTRACT:

The production of olefines from lower paraffin hydrocarbons is possible by means of dehydrogenation. The dehydrogenation of paraffin hydrocarbons with five and more carbon atoms is investigated here. At 450 - 510°C the dissociation of paraffin hydrocarbons takes place over activated coal with promotor. This reaction is accompanied also by dehydrogenation. The yield of liquid catalysate is 82 - 95%, the yield of gas 3 - 15%. The liquid products contained 20 - 30% unsaturated compounds. The raw material for the reaction was sintin, a product obtained from CO and H<sub>2</sub> over a Co-ThO<sub>2</sub>-MgO catalyst. Promotors for the activated coal were salts of Na, Li, Rb, Cs and other metals. The promotors cause the increase of the H<sub>2</sub> : C<sub>n</sub>H<sub>2n+2</sub> ratio from 0.362 to 1.35. The best promotor is caustic soda followed by Na<sub>2</sub>CO<sub>3</sub>. Among the other metals a positive effect show only Li salts. The best carrier for the catalyst in the fraction 180 - 200°C is activ-

Card 1/2



SOV/80-32-5-32/52

On the Reaction of Dehydrogenation of Higher Paraffin Hydrocarbons Over Coal Catalysts

ated coal of type KAD. With the increase of the boiling point of the raw material the reaction of dissociation plays an important role. The yield of liquid products decreases and coke and gas formation increases. Since at 500 - 510°C the dissociation reaction prevails, the temperature should be kept at 470 - 480°C. At a volume rate of 3 vol/vol · catalyst · hour the dehydrogenation reaction prevails. The catalyst KAD + 1% NaOH decreases its activity after 10 - 12 hours and must be regenerated by superheated steam for 10 hours. Experiments with the single hydrocarbon n-heptane have shown that a partial dehydrogenation takes place without dissociation and dehydrocyclization. There are 6 tables, 4 graphs and 4 references, 2 of which are Soviet and 2 American.

SUBMITTED: October 9, 1957

Card 2/2

NUDEL'MAN, B.I.; GRAKHOVA, S.K.

Obtaining portland cement clinkers in fused salts at low calcination temperature with a steam aftertreatment. Uzb.khim. zhur. 7 no.3:13-15 '63. (MIRA 16:9)

1. Konstruktersko-tehnologicheskoye byuro po stroymaterialam pri glavnom upravlenii promyshlennosti stroitel'nykh materialov Sredne-aziatskogo soveta narodnogo khozyaystva.  
(Portland cement) (Fused salts)

GUTTSAYT, Roman Moiseyevich; PETUKHOV, Vladimir Mikhaylovich;  
GRAKHOVSKAYA, T.M., red.; BODANOVA, A.P., tekhn. red.

[Work of the committee of voluntary motor-vehicle inspection]  
Rabota komissii obshchestvennogo kontrollia za tekhnicheskim  
sostoianiem avtomobilei; iz opyta raboty avtokhozyaystv Lenin-  
gradskogo upravleniia avtomobil'nogo transporta. Moskva, Avto-  
transizdat, 1962. 45 p. (MIRA 15:12)  
(Leningrad--Motorvehicles--Inspection)

MERKULOV, Nikolay Semenovich, shofer; BAZHAN, Ivan Nikiforovich, shofer; GRAKHOVSKAYA, T.M., red.; GORYACHKINA, R.A., tekhn. red.

[Gas-tank trucks work round-the-clock. As told to M.S. Blanter] Benzovozy rabotaiut kruglosutochno: Literaturnaia zapis' M.S.Blantera. Moskva, Avtotransizdat, 1963. 29 p.  
(MIRA 17:3)

LUK'YANCHENKO, Pavel Zakharovich; GRAKHOVSKAYA, T.M., red.;  
GORVACHKINA, R.A., tekhn. red.

[Reinforced-concrete bridges] Zhelezobetonnye mosty. Mo-  
skva, Avtotransizdat, 1963. 55 p. (MIRA 16:12)  
(Bridges, Concrete)  
(Reinforced concrete construction)

RAPOPORT, Mikhail Moiseyevich; GRAKHOVSKAYA, T.M., red.

[Mechanized accounting for the operation of automotive  
freight transportation] Mekhanizatsiia ucheta raboty  
gruzovogo avtomobil'nogo transporta. Izd.2., perer. i  
dop. Moskva, Transport, 1964. 93 p. (MIRA 17:5)

GRAKHOVSKAYA, T.M., red.

[Time norms for the maintenance of motor vehicles by  
separate operations] Pooperatsionnye normy vremeni na  
tekhnicheskoe obsluzhivanie avtomobilei. Moskva,  
Transport, 1964. 152 p. (MIRA 17:12)

1. Russia (1917- R.S.F.S.R.) Ministerstvo avtomobil'-  
nogo transporta i shosseynykh dorog. Tsentral'naya  
normativno-issledovatel'skaya stantsiya.

AKSENOVA, Z.I., kand. ekon. nauk; DENISOVA, O.N., inzh.,  
retsenzent; GRAKHOVSKAYA, T.M., red.

[Economic aspects of freight transportation] Voprosy ekonomiki perevozok грузов. Moskva, Transport, 1964. 164 p.  
(MIRA 17:6)



KORF, Mayor Isaakovich; FAYBUSOVICH, Moisey Grigor'yevich;  
FROLOV, Dmitriy Pavlovich; GRAKHOVSKAYA, T.M., red.

[Tables for the computation of wages for automobile,  
bus, and truck drivers] Tablitsy dlia nachisleniia za-  
rabotnoi platy shoferam. Izd.2., dop. Moskva, Trans-  
port, 1964. 266 p. (MIRA 17:6)

RITOV, M.N., kand. tekhn. nauk; GRAKHOVSKAYA, T.M., red.

[Method of calculating the cost of road machinery on the basis of machine-shifts] Metodika rascheta stoimosti mashino-smen dorozhnykh mashin. Izd.3., perer. i dop. Moskva, Transport, 1965. 159 p. (MIRA 18:4)

L 53867-65 EWT(1)/EWP(m)/EWT(m)/EWA(d)/EPR/EWP(t)/EWP(b)/EWA(1) Pd-1/Ps-4/

JD/WW

ACCESSION NR: AP5017240

UR/0170/64/000/007/0020/0024

AUTHOR: Grakhovskiy, B. M.; Semenenko, V. D.

39  
B

TITLE: Particle density distribution with residence time in a fluidized bed

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 7, 1964, 20-24

TOPIC TAGS: fluid mechanics, particle motion

ABSTRACT: A theoretical solution is given for the one-dimensional problem of particle distribution density with residence time in a fluidized bed. It is assumed that the bed moves with constant velocity. The effect of bed motion and the mixing of particles on the uniform treatment of the material is discussed. Graphs of the solution for several arbitrary values of the parameters are given. The article has: 21 formulas, 1 graph.

ASSOCIATION: Filial Instituta teploenergetiki AN UkrSSR, Donetsk (Institute of Thermal Power Engineering, AN UkrSSR)

SUBMITTED: 22Apr63

NR REF SOV: 007

ENCL: 00

OTHER: 003

SUB CODE: NP, ME

JPRS

Card 1/1

RUTENBURG, G., inzh.; GRAKHOVSKIY, R., inzh.

Automobile heaters operating independently of engines. Avt.  
transp. 37 no.3:20-23 Mr '59. (MIRA 12:4)  
(Automobiles--Cold weather operation)

RUTENBURG, G., inzh.; GRAKHOVSKIY, R., inzh.

Heaters for engines. Avt. transp. 37 no.9:15-18 S '59.  
(MIRA 12:12)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni  
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy  
institut.  
(Motor vehicles--Cold weather operation)

GRAKHOVSKIY, R.; SAMOYLOVICH, A.

Automatic engine preheaters. Za rul. 18 no.2:22-23 P '60.  
(MIRA 13:6)

1. Gosudarstvennyy soyusnett ordena Trudovogo Krasnogo Znameni  
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.  
(Automobiles--Cold weather operation)

GRAKHOVSKIY, R.; KOMAROV, V.

Heater for automobiles. Za rul. 18 no.10:24-25 0 '60.

(MIRA 14:1)

(Automobiles—Cold weather operation)

GRAKHOVSKIY, R.

Movable heating units. Avt.transp. 38 no.3:21-22  
Mz '60. (MIRA 13:6)  
(Motor vehicles—Cold weather operation)



GRAKHOVSKIY, R.

Requirements of heating and ventilation systems. Avt.transp. 38 no.10:  
40-41 0 '60. (MIRA 13:10)  
(Motor vehicles--Heating and ventilation)

GRAKHOVSKIY, R., inzh.

New pulsating heater. Avt. transp. 38 no. 12:51-52 D '60.

(MIRA 13:12)

(Motor vehicles--Cold weather operation)

GRAKHOVSKIY, R., inzh.

Automobile heating. Za rul. 19 no.12:16-18 D '61.  
(MIRA 14:12)  
(Automobiles---Heating and ventilation)

GRAKHOVSKIY, R., inzh.

Air conditioning in automobiles. Za rul. 20 no.9:16-17 S  
'62. (MIRA 15:9)  
(Automobiles--Air conditioning)

GRAKHOVSKIY, R.

Eliminate shortcomings of the IAMZ starting preheater. Avt.  
transp. 41 no.1:44-45 Ja '63. (MIRA 16:2)  
(Motor vehicles—Cold weather operation)

GRAKHOVSKIY, S. [Hrakhouski, S.]; KARPOV, "I. [Karpau, Ul.];  
SABALENKA, R.; KHADKEVICH, T.; GONCHAROV, I.  
[Hancharou, I.], red.

[We will tell about Minsk] My raskazham pra Minsk.  
Minsk, Belarus', 1964. 241 p. (MIRA 18:8)

GRAKIAK, A.

Not in all of the technology and rationalization clubs is it so  
bad....p. 13. Vol. 6, no. 11, Nov. 1955 Warszawa

GOSPODARKA ZABOZOWA

SOURCE: East European Accession List (EEAL) Library of Congress  
Vol. 5, no. 8, August 1956

GRAKINA, I. A.

Moskva sotsialisticheskaya; pod red. I. A. Grakina, V.P. Pronina i T.A. Selivanova.  
(Moskva), Moskovskii rabochii, 1940. 116, (4) p. DLC: DK601.R6

SO: LC, Soviet Geography, Part II, 1951/Unclassified



GRAKOV, B.S.

Clinical use of the acid erythrogram method in post-hemorrhagic  
anemias. *Bop.biofiz., biokhim.i pat.erit.* no.2:234-252 '61.  
(MIRA 16:3)

1. Krasnoyarskiy meditsinskiy institut.  
(ERYTHROCYTES) (ANEMIA) (HEMORRHAGE)

GRAKOV, B.S.

Study of clinical erythrographic parallels. Vop.biofiz., biokhim.  
i pat.erit. no.2:253-269 '61. (MIRA 16:3)

1. Krasnoyarskiy meditsinskiy institut.  
(ERYTHROCYTES)

GRAKOV, F.M.

Screw jack for lifting crane tracks. Rats. i izobr. predl. v stroi.  
no.7:37-38 '58. (MIRA 11:12)  
(Lifting-jacks) (Cranes, derricks, etc.)

SOV/123-59-15-59460

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 84 (USSR)

AUTHOR: Grakov, V.

TITLE: Complex Dies for Sheet Stamping and Electromagnetic Blocks for Fixing Them

PERIODICAL: Prom.-ekon. byul. Sovnarkhoz ekon. adm. r-na, 1958, Nr 2, pp 23 - 31

ABSTRACT: The article has not been reviewed.

Card 1/1

HERMOCH, Vladimir; GRAKOV, Valerij

Magneto optic shutters. Ces cas fys 13 no.6:463-469 '63.

1. Ustav fysiky pevných látek, Československá akademie, Praha  
(for Hermoch). 2. Beloruská státní univerzita, katedra  
experimentální fyziky, Minsk (for Grakov).

GRANOV, Vladimir Il'ich; MIKHEYEV, N.I., red.

[Dies with electromagnetic fastening on presses; design, electric circuits, preparation and operation]  
Shtampy s elektromagnitnym krepleniem na pressakh;  
konstruktsii, elektricheskie skhemy, izgotovlenie i  
ekspluatatsiia. Kuibyshev, Kuibyshevskoe knizhnoe  
izd-vo, 1963. 183 p. (MIRA 17:7)

L 18292-63

EWI(1)/EWP(q)/EWI(m)/RDS/EEC(h)-2/ES(w)-2 AEFIC/ASD/

ACCESSION NR: AP3003674 AFWL/IJP(C)/SSD Pab-4 Z/0055/63/013/007/0509/0517

JD

AUTHOR: Grakov, V., V. Hermoch

TITLE: Behavior of cathode spots in heavy electric discharge

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 13, no. 7, 1963, 509-517

TOPIC TAGS: cathode spot, two typemetal, positive ion, boiling surface, metal type

ABSTRACT: Object of the study was the aperiodic discharge of a condenser under atmospheric pressure: capacitance 105 microF, inductivity 30 microH, resistance 0.3 Ohms; tension on condenser 600 V; duration of discharge 180 microsec, maximum strength of current 400 A. The existence of cathode spots of 2 types was discovered. Those on Ni, Cu and Al, marked by rapid movement toward fresh sections of the electrode, apparently appear on all metals. If the autoelectric mechanism of the emission from the cathode is assumed, their behavior may be explained thus: when the surface irregularities of the metal have been melted away and its crystal structure destroyed by the positive ions resulting

Card 1/1

L 18292-63  
ACCESSION NR: AP3003674

3

from bombardment, the electron emission within the spots diminishes. This causes the center of the emission to pass to the neighboring sections with increased emission capacity, and ultimately the whole spot to be transferred there. The movement of the spot along the electrode consists of a whole series of such shifts. Those of the second type, on Zn, Cd and Sn, have low mobility and occur only on metals with low thermophysical constants at the local boiling points of the cathode. They result because increased concentration of metal vapor under the boiling surface augments the ionizing action of the primary electrons. The consequent attachment of the spots of the second type to the centers of evaporation is responsible for their low mobility. It seems unlikely that the indicated subdivision of metals according to the behavior of the cathode spots on them was a subdivision upon the electric parameters of the discharge. Further experiments must clarify this question. Orig. has 1 figure.

ASSN: (1) Chair of Experimental Physics of the Belorussian State University;  
(2) Inst. of Physics of Solid Bodies, Cz AS.

Card 2/2



2/037/62/000/005-6/011/049  
E140/E520

AUTHOR: Grakov, V. E.

TITLE: Photoelectric measurement of self-absorption of spectral lines in impulse-gas discharge plasma

PERIODICAL: Československý časopis pro fysiku, <sup>12</sup>no.5-6, 1962, 502-504

TEXT: A spark gap was imaged on a second, identical gap, electrically in series during a pulsed discharge, and the spectral behavior determined by means of a monochromator on whose entrance slit was imaged the second gap. Time resolved pictures of spectral lines are presented on an oscilloscope. The entire system is represented in Fig.1. It appears that the maximum absorption coincides with maximum radiation, but the systematic error at low intensities masks this effect. Some results are given in Table 1. There are 2 figures and 1 table.

ASSOCIATION: Běloruská státní universita V. I. Lenina, Minsk  
(Belorussian State University, V.I.Lenin, Minsk)

~~Card 1/3~~

MAREK, Irzhi [Marek, Jiri<sup>V</sup>]; GRANKOVA, Il. [translator]; KASYUGA, L. [translator];  
MALININA, G., red.; LYANGUZOVA, tekhn. red.

[Equatorial land, or a full and detailed description of a trip  
through Java and Bali undertaken in 1955] Strana pod ekvatorom,  
ili polnoe i podrobnoe opisanie puteshestviia na Iavu i Bali,  
predpriniatogo v 1955 godu.... [Moskva] Izd-vo TsK VIKSM "Molodaia  
gvardiia," 1958. 175 p. (MIRA 11:7)

(Java--Description and travel)  
(Bali (Island)--Description and travel)

*GRAKOVA, T. K.*  
GRAKOVA, T. K.

Aid to medical workers in industrial enterprises. Zdrav. Ros. Feder.  
1 no.4:36-37 Ap '57. (MIRA 10:11)

1. Predsedatel' Leningradskogo gorodskogo komiteta Obshchestva  
Krasnogo Kresta.  
(RED CROSS)

GRAKOVA, T.; PRIKAZCHIKOVA, G.

Create without fail. Voen.znan. 41 no.11:14-16 N '65.

(MIRA 18:12)

1. Predsedatel' Leningradskogo gorodskogo komiteta Krasnogo  
Kresta (for Grakova). 2. Vneshtatnyy inspektor Tsentral'nogo  
komiteta Krasnogo Kresta RSFSR (for Prikazchikova).

GRAKOVA, T.K.

Our practice in collecting blood. Zdrav.Ros.Feder. 2 no.7:34-36  
J1'58 (MIRA 11:7)

1. Leningradskiy gorodskoy komitet obshchestva Krasnogo Kresta  
(BLOOD DONERS)

GRAKOVA, T.K.

Our experience in the recruiting of donors. Akt.vop.persl.krovi  
no.7:60-63 '59. (MIRA 13:1)

1. Leningradskiy gorodskoy komitet Krasnogo Kresta.  
(LENINGRAD--BLOOD DONORS)

GRAKOVA, T.K.

Attracting the public to the improvement of labor conditions in industrial enterprises. Zdrav. Ros. Feder. 5 no. 3:11-14 Mr '60.  
(MIRA 14:2)

1. Predsedatel' Leningradskogo gorodskogo komiteta obshchestva  
Krasnogo Kresta.  
(LENINGRAD—INDUSTRIAL HYGIENE)

RUDENKO, G.D.; GRAKOVA, T.K.

Control of home injuries. Zdrav.Ros.Feder. 6 no.11:24-26 N '62.  
(MIRA 15:12)

1. Iz organizatsionno-metodicheskogo otdela (zav. - prof. S.Ya. Freydlin) Leningradskogo instituta travmatologii i ortopedii (dir. - prof. V.S.Balakina) i Leningradskogo gorodskogo komiteta Obshchestva ~~Krasnogo Kresta~~.  
(HOME ACCIDENTS—PREVENTION)



OL'DEKOP, Yu.A.; BYLINA, G.S.; GRAKOVICH, L.K.; BULOYCHIK, Zh.I.; TEYF, Zh.D.

Acyl peroxides. Part 7: Synthesis of asymmetrical diacyl peroxides of aliphatic and hexahydroaralyphatic series. Zhur. org. khim. 1 no.1:82-86 Ja '65. (MIRA 18:5)

1. Belorusskiy gosudarstvennyy universitet im. V.I.Lenina.

GRAKOVSKIY, G.Yu.

Using FEP-3 and FEP-4 pyrometers for the measurement of flame radiation. Izv. vys. ucheb. zav.; Chern. met, 8 no.5:200-203 '65. (MIRA 18:5)

1. Moskovskiy institut stali i splavov.

GRAKOVSKIY, P.P.

Effect of vegetative hybridization on the change in hereditary  
qualities of malting barley. Agrobiologiya no.2:226-230  
Mr-Apr '64. (MIRA 17:6)

1. Volynskaya gosudarstvennaya sel'skokhozyaystvennaya opytnaya  
stantsiya, Ukrainskaya SSR.

GRAKUSHA, G. A.:

In an article entitled "Twenty Years of the State Scientific Control Institute for Veterinary Preparations", Candidate for chemical sciences G. A. GRAKUSHA with candidate of veterinary sciences A. I. Shmulevich synthesized a new preparation - thiargin - which proved a very effective agent against pyroplasmosis(?) SO: Veterinariya, 28, No. 3: 58-61, March 1951 Uncl lme  
Trans XIII by L. Lulich (filed under org'n file under above named institute)

GRAL, T.; ERDELYI, R.

Congenital adrenogenital syndrome. Rozhl.chir.39 no.11:744-747  
N'60.

1. Interna klinika LFUK Kosice, prednosta doc.dr. F.Por  
Oddelenie plastickej chirurgie KUNZ Kosice, prednosta kand.vied  
dr. R.Erdelyi.

(ADRENOGENITAL SYNDROME case reports)

HOSZOWSKA, Anna; KRETSCHMER, Ryszard; KULJAWA, Helena; GRALA, Ryszard

Therapeutic use of bitter lye from Inowroclaw in diseases of the biliary tract and liver. Pol. tyg. lek. 18 no.28:1009-1013 8 J1 '63.

1. Z I Kliniki Chorob Wewnętrznych AM w Poznaniu; kierownik: prof. dr med. S. Kwasniewski i z Instytutu Balneoklimatycznego w Poznaniu; dyrektor: prof. dr med. J. Jankowiak.  
(MINERAL WATERS) (LIVER DISEASES)  
(BILIARY TRACT) (DISEASES)

GRAJA, Ryszard; ADAMSKI, Alojzy; KRETSCHMER, Ryszard

Therapeutic effects of heparin in liver cirrhosis. Pol. tygod.  
lek. 20 no.14:523-525 5 Ap '65.

1. Z I Kliniki Chorob Wewnętrznych AM w Poznaniu (Kierownik:  
doc. dr. K. Jasinski).

GRALAK, Z.

At Redlowo the Pulaski is sinking. P. 2  
MORZE. (Liga Morska) Warszawa.  
No. 4, Apr. 1956

SOURCE: EEAL LC Vol. 5, No. 7, July 1956



GRALESKI, Zdzislaw

A case of unilateral motor disorders following diphtheria.  
Neurol. neurochir. psychiat. Pol. 14 no.1:67-69 Ja-F '64.

1. Z Panstwowego Szpitala dla Nerwowo i Psychicznie Chorych  
w Rybniku (Dyrektor: dr. J. Szczeniowski).

GRALEWSKA, A.

The lumber industry in Finland. p. 29.

(OCHRONA PRACY: BEZPIECZENSTWO I HIGIENA PRACY. Vol. 12, No. 7, July 1957. Warszawa, Poland)

SO: Monthly List of East European Accessions (EMAL) LC. Vol. 6, No. 10, October 1957. Uncl.

GRALIKOWSKI, Mieczyslaw; PODSIADLO, J.

Methods for quantitative spectrum analysis of the copper, zinc and lead content of ores. *Magy kem folyoir* 68 no.12:531-533 D '62.

1. Geologiai Kutato Intezet, Krakko, Lengyelország.

GRALINSKI, M

"Analysis of dyestuff in textiles." p. 260 (Przemysl Wlokienniczy, Vol. 7, No. 11/12,  
Nov./Dec., 1953, Lodz)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June.  
1954, Uncl.

4232

667.248 : 877.004

Gzoliński M. Improvement in Methods of Dyeing Tissues with Glacial Dyes.

„Usprawnienie sposobu barwienia tkanin barwnikami lodowymi”.  
Przemysł Włókienniczy. No 3, 1955, pp. 91-95.

The author discusses the reaction of conjugating naphthoates with naphthoelate bases on fibres and quotes the amounts of components required for continuous dyeing. An improvement has been devised at the Laboratory of the Textile Industry Institute, which will substantially cut the costs of the industry. Application of the wetting agent Petepon G, made it possible to reduce the concentration of naphthoelate red in the developing bath from 15 g/l to 12 g/l, i.e., by 20 per cent, without perceptible differences in the depth of the coloration and with the same coloristic effects. Petepon G should be added (in quantities of 3 g/litre of the bath) to a diazotized and neutralized bath with sodium acetate.

*chem* 1

POLAND/Chemical Technology - Chemical Products and Their  
Application. Dyes and chemical Treatment of  
Textile Materials.

H-34

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 59628

Author : Gralinski Miroslaw

Inst :

Title : Observations Concerning dyes and the Use of Vipolan  
[sic] II. Dyeing of Vipolan. Directions Concerning  
Its Use.

Orig Pub : Wlokiennictwo, 1956, 5, No 5, 116-118

Abstract : Methods of dyeing are reviewed as well as a group of dyes  
used for dyeing the casein fiber (CF) vipolan. Taking  
into consideration the small resistance of CF to water,  
and the great difficulties of dyeing mixtures of wool-  
CF, this fiber finds very limited use in the manufacture  
of textile articles.  
Report I, see RZhKhim, 1957, 64948.

Card 1/1

POLAND / Chemical Technology. Natural and Synthetic H-31  
Caoutchouc. Rubber.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 79765.

Author : Gralinski, M.

Inst : Not given.

Title : The Change in Color Under the Influence of Vulcanization.

Orig Pub: Przem. wlokienniczy, 1957, 11, No 8, 385-387.

Abstract: The change in color shades of 110 dyes was studied for cotton and synthetic fibers under vulcanization. The effect of light and laundering is evident only in a few cases, and changes the color insignificantly. After vulcanization, as a rule, a weakening in color as well as a change

Card 1/2

96

POLAND / Chemical Technology. Natural and Synthetic H-31  
Caoutchouc. Rubber.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516520007-5

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 79765.

Abstract: in shades was noted. Chrome yellow R was an exception. Yellow dyes acquire a greenish shade; orange dyes — dirty green, red and sometimes violet ones — bluish. Vulcanization does not affect the laundry or light resistance.

Card 2/2

GRALINSKI, Mirosław, mgr inż.

Chemical methods of determining the percentage of individual components used in forming a fiber blend. Przegl włokien 17 no. 3: 116-122 Mr '63.

Review of publications. Ibid.: 136.

1. Textiles Institute, Łódź.



GRALOV, Gel'mit [Gralow, Helmut]

Women in public service. Vsem.prof.dvizh. no.6:47-51 Je '59.  
(MIRA 13:4)

1. Mezhdunarodnoye ob'yedineniye profsoyuzov trudyashchikhsya  
obshchestvennogo obslushivaniya.  
(Woman--Employment)

GRAM, I.; TIMUS, A.; COJOCARU, I.

Technique of ginning and removing flax dodder seeds. I. p. 370.

INDUSTRIA TEXTILA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerului Industriei Usoare) Bucuresti. Vol. 6, no. 11, Nov. 1955.

So. East European Accessions List Vol. 5, No. 9 September, 1956

GORCHAKOV, S.N.; GRAM, I.I., starshiy inzhener; KONDRAT'YEV, M.S., inzhener-mekhanik; IVANOVSKIY, N.F.; KOVALEV, M.A., starshiy energetik tresta.

Improving the use and repair of building machinery. Strel.prem.34 no.6:  
39-40 Je '56. (MIRA 9:9)

1.Glavnyy mekhanik tresta Zaperezhstroy (for Gorchakov).2.Otdel glavnoye mekhanika tresta Vostokneftrestroy (for Kondrat'yev).3.Glavnyy mekhanik tresta Stal'montash-5 Ministroya SSSR (for Ivanovskiy).  
(Building machinery)

GRAMA, O., ing.

Conductivity of electrolyte solutions and its applications  
in the measurement of Na Cl solutions. Metrologia apl  
11 no. 4: 164-174 Ap '64.